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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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WELLS ST JOHN ROBERTS GREGORY AND MATKIN			EXAMINER	
SUITE 1300		BOOTH, RICHARD A		
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SI ORAIVE,	WA 992013020		ART UNIT	PAPER NUMBER
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			DATE MAILED: 12/21/2001	$(\lambda$
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Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. **Excessions of the common by a service of the common of 50°CR 1.15(s). In no event, however, may a regly be timely filed. **Excessions of the common of 50°CR 1.15(s). In no event, however, may a regly be timely filed. **If the period for may's specified above is less than lithing (30) days, a regly within the statulatory melinium of thing (30) days, and in the considered timely. **If his period for may's specified above is less than lithing (30) days, a regly within the statulatory melinium of thing (30) MONTH for the mailing date of the common of the		Application No.	Applicant(s)			
Richard A. Booth 2812		09/768,878	WOLSTENHOLME, GRAHAM			
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THE MAILING DATE OF THIS COMMUNICATION. Exercision of time may be available under the provision of 3 CFR 1 136(a). In no event, however, may a reply be timely fixed after SX (8) MONTHS from the mailing date of this communication. It is provided to make the state of the communication of the provision of the pro	The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondenc addr ss			
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11. 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-41 is/are pending in the application. 4a) Of the above claim(s) 1-23,32-35 and 39 is/are withdrawn from consideration. 5) Claim(s) 29-31 is/are allowed. 4a 0 Claim(s) 24-28,36-38,40 and 4½ is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) — are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application). Mile Notice of References Cited (PT	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.44 is/are pending in the application. 4a) Of the above claim(s) 1.23,32.35 and 39 is/are withdrawn from consideration. 5) Claim(s) 29.31 is/are allowed. a 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	1) Responsive to communication(s) filed on					
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	1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6.	5) Notice of Informal F				

Art Unit: 2812

DETAILED ACTION

Election/Restrictions

Applicant's election of claims 24-31, 36-38, and 40-41 in Paper No. 8 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 36-37 and 40-41 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Hsu et al., U.S. Patent 5,854,108 (see Figures 5(a)-5(c) and column 5, lines 1-54).

Claims 24-25 and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen, U.S. Patent 6,235,581 B1.

Chen shows the invention as claimed including forming alternating trench and active areas (see Figure 4); forming a line of gate stacks 30; forming a source

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conductive line 17 along the line of floating gates that electrically interconnects discrete transistor source areas; and providing source forming conductivity enhancing impurity into the discrete transistor source areas (see Figures and column 2, line 47 – column 5, line 64).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hsu et al..

Hsu et al. is applied as above but does not disclose where the mask 118 is a resist mask. In response, the examiner takes official notice that it would be obvious to use a photoresist mask as the etch mask in Hsu et al. because it would be easier to perform an etch process.

Claims 26 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen.

Chen is applied as above but lacks anticipation of the particular order of processing steps and forming a source line of polycide. With regard to the order of processing steps, this is not patentable absent the showing of new or unexpected

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results. Furthermore, the examiner takes official notice that the use of polycide source lines is well known in the art.

Allowable Subject Matter

Claims 29-31 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the prior art, either singly or in combination, fails to anticipate or render obvious, the limitations of: out diffusing source forming conductivity enhancing impurity into the discrete transistor source areas from the conductively doped semiconductor material; and patterning the conductively doped semiconductor material into a conductive line, as required by independent claim 29.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard A. Booth whose telephone number is 308-3446. The examiner can normally be reached on Monday-Thursday from 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on 308-3325. The fax phone numbers for the organization where this application or proceeding is assigned are 308-7724 for regular communications and 308-7724 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-1782.

Richard A. Booth Primary Examiner Art Unit 2812